Fujitsu recommends Windows 8 Pro.

# Data Sheet
# Fujitsu ESPRIMO P910 0-Watt Desktop PC

## The Innovative 0-Watt PC

Fujitsu ESPRIMO P910 PCs give you the absolute highest PC manageability, performance and expandability. These Zero Noise PCs help you focus on your work and with 94% efficient power supply with 0-Watt technology, you'll also save on energy costs. The use of identical components ensures perfect infrastructure compatibility. At retirement, Fujitsu's distinctive EraseDisk function wipes your data securely

**0-Watt PC**
Cost savings by completely reducing off-mode losses
- Patented function for 0-Watt power consumption in off mode with simultaneous management in a time slot that can be optionally set

**Zero Noise PC**
Pleasant working environment due to completely quiet system (solid state disk required)
- Fan stop in standard operations

**Green technology**
Fujitsu's contribution to environmental protection for the continued existence of our planet
- Halogen-free printed circuit board of mainboard and power supply, sophisticated product concept for the entire lifecycle

**Energy efficiency coupled with intelligent performance**
Lowest power consumption combined with new levels of performance
- 3rd generation Intel® Core™ processor family, a switched monitor outlet and a power supply with up to 94% efficiency

**System management**
Simple system administration for complex IT infrastructures
- Intel® vPro™ technology (depending on processor) and DeskView manageability tools

Fujitsu recommends Windows 8 Pro.

# Components

| | |
|---|---|
| **Processor** | Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4000) * |
| | Intel® Core™ i5-3570 processor (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 6 MB, Intel® HD Graphics 2500) * |
| | Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 2500) * |
| | Intel® Core™ i3-3220 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2500) |
| | Intel® Core™ i3-2130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 2000) |
| | Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2000) |
| | Intel® Pentium® processor G870 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G860 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G850 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G645 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G2120 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G2020 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Celeron® processor G550 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics) |
| | Intel® Celeron® processor G1610 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics) |
| | Intel® vPro™ Logo with Intel® Core i5 and Core i7 processors<br>*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables) |
| | Intel® Core™ Processor with Intel® Small Business Advantage - Smart Platform for Unmanaged Small Business |
| **Operating systems** | |
| **Operating system** | Windows 8 Pro<br>Windows 8<br>Windows® 7 Professional 64-bit<br>Windows® 7 Professional 32-bit<br>Windows® 7 Home Premium 64-bit<br>Windows® 7 Home Basic (EM) 32-bit |
| **Operating system compatible** | openSUSE Linux<br>Windows® XP<br>Citrix XenClient™ 2 |
| **Operating system notes** | Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com |
| **Memory modules** | 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| | 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| | 8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| **Hard disk drives (internal)** | SSD SATA III, 256 GB, 2.5-inch |
| | SSD SATA III, 128 GB, 2.5-inch, SED |
| | SSD SATA III, 128 GB, 2.5-inch |
| | SSD SATA III, 64 GB, 2.5-inch |
| | SSD SATA II, 128 GB, 2.5-inch, FDE |
| | HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical |
| | HDD SATA III, 7200 rpm, 500 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 250 GB, 3.5-inch |
| | HDD SATA II, 7200 rpm, 320 GB, 2.5-inch |
| **Hard disk notes** | Up to 18 GB of HDD space is reserved for system recovery |
| **Graphics add on cards (optional)** | NVIDIA® GeForce® GT630 DisplayPort 2GB FH 0-Watt, 2 GB |

| | |
|---|---|
| **Drives (optional)** | BD Triple Writer SATA slim (tray) |
| | DVD-ROM |
| | DVD Super Multi |
| | MultiCard Reader 24in1 USB 2.0 3.5" |
| **Interface add on cards/components (optional)** | |
| | WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only) |
| | Parallel Interface |
| | Gigabit Ethernet PCIe x1, DS |
| | eSATA Interface |
| | Dual serial card PCIe x1, powered |
| | Dual serial card PCIe x1 |
| **Base unit** | ESPRIMO P910 0-Watt |
| **Mainboard** | |
| **Mainboard type** | D3162 |
| **Formfactor** | µATX |
| **Chipset** | Intel® Q77 |
| **Processor socket** | LGA 1155 |
| **Processor quantity maximum** | 1 |
| **Memory slots** | 4 DIMM (DDR3) |
| **Supported capacity RAM (max.)** | 32 GB |
| **Memory frequency** | 1600 MHz |
| **Memory notes** | Dual channel support.<br>For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same. |
| **LAN** | 10/100/1000 MBit/s Intel® 82579 LM |
| **BIOS version** | AMI Aptio 4.6 |
| **BIOS features** | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI) |
| **Audio codec** | Conexant CX20642 |
| **Audio features** | Internal speaker supports audio playback, High Definition audio, 5.1 surround sound |
| **I/O controller on board** | |
| **Serial ATA total** | 6 |
| **thereof SATA III** | 2 |
| **thereof eSATA** | 2 |
| **Controller functions** | Serial ATA II (3 Gbit)<br>Serial ATA III (6 Gbit)<br>NCQ<br>AHCI<br>RAID 0/1/5/10 (Windows XP not supported)<br>Intel® Smart Response Technology (depending on CPU) |
| **Interfaces** | |
| **Audio: line-in** | 1 |
| **Audio: line-in / microphone** | 1 |
| **Audio: line-out** | 1 |
| **Front audio: microphone** | 1 |
| **Front audio: headphone** | 1 |
| **USB 2.0 total** | 10 |
| **USB 3.0 total** | 4 |
| **USB front** | 4x 2.0 or 2x 2.0/ 2x 3.0 |
| **USB rear** | 6x 2.0 / 2x 3.0 |

| Interfaces | |
|---|---|
| USB internal | 2 |
| VGA | 1 (via DVI to VGA adapter, part of shipment) |
| DisplayPort | 1 |
| DVI | 1 (DVI-I) |
| Serial (RS-232) | 1 (9pin, 16 byte FIFO, 16550 compatible) |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| Parallel | 1 (optional) (25pin with EPP and ECP) |
| eSATA | 2 (optional) |
| Interface Module notes | Anytime USB charge functionality |

| Input device / components | |
|---|---|
| | Optical USB wheel mouse |
| Input devices (optional) | Optical USB/PS2 tilt wheel mouse<br>KBPC PX ECO<br>Mouse M440 ECO |

| Drive bays | |
|---|---|
| Drive bays total | 7 |
| 2.5-inch internal bays | 1 |
| 3.5-inch internal bays | 2 |
| 3.5-inch external bays | 2 |
| 5.25-inch external bays | 2 |

| Slots | |
|---|---|
| PCI-Express 3.0 x16 | 1 x (312 mm / 12.29 inch) Full height |
| PCI-Express 2.0 x4 (mech. x16) | 1 x (312 mm / 12.29 inch) Full height |
| PCI-Express x1 | 1 x (312 mm / 12.29 inch) Full height |
| PCI (32-bit / 33 MHz) | 1 x (170 mm / 6.7 inch) Full height |

| Graphics on board | |
|---|---|
| Graphics brand name | Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU) |
| Shared video memory | up to 1759 MB |
| TFT resolution (VGA) | 1024 x 768 pixel<br>1280 x 1024 pixel<br>1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1600 x 1200 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel |
| TFT resolution (DVI) | 1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel |
| TFT resolution (DisplayPort) | 1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel<br>2560 x 1440 pixel<br>2560 x 1600 pixel |

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|---|---|
| **Graphics on board** | |
| **Graphics features** | Dual display support<br>DirectX® 10.1 or DirectX® 11 (depending on CPU)<br>HDCP support<br>Open GL® 3.3 (depending on CPU)<br>Open CL™ 1.1 (depending on CPU)<br>For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only) |
| **Graphics notes** | Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz |
| **Electrical values** | |
| **Power efficiency note** | power supply efficiency (at 230V; 20% / 50% / 100% load) : 91% / 94% / 92% |
| | 0-Watt mode automatically |
| **Rated voltage range** | 100 V - 240 V |
| **Rated frequency range** | 50 Hz - 60 Hz |
| **Operating voltage range** | 90 V - 264 V |
| **Operating line frequency range** | 47 Hz - 63 Hz |
| **Max. output of single power supply** | 280 W |
| **Power factor correction/active power** | active |
| **Monitor outlet** | Switched |
| **Power consumption** | |
| **Power consumption note** | See white paper Energy Consumption<br>0-Watt mode automatically |
| **Link to Energy White Paper** | http://docs.ts.fujitsu.com/dl.aspx?id=64f05bc3-446b-4408-b417-c4bcbb61abab |
| **Heat dissipation** | |
| **Heat dissipation notes** | See white paper Energy Consumption |
| **Noise emission** | |
| **Related Processors for noise** | Core i5-3770 |
| **Standard noise emission** | 2x2 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74 |
| **Standard noise notes / description** | A weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) |
| **Standard noise operation mode: CPU 50% load** | 3.5 B / 22 dB(A) Bystander ; 27 dB(A) Operator position |
| **Standard noise operation mode: HDD load** | 3.6 B / 22 dB(A) Bystander ; 25 dB(A) Operator position |
| **Standard noise operation mode: Idle mode** | SSD: no noise emmision, 2.5" HDD: 3.2 B / 18 dB(A) Bystander ; 20 dB(A) Operator position, 3.5" HDD: 3.3 B / 19 dB(A) Bystander ; 22 dB(A) Operator position |
| **Standard noise operation mode: ODD load** | 4.7 B / 33 dB(A) Bystander ; 37 dB(A) Operator position |
| **Standard noise operation mode: Office applications 2.0** | SSD: no noise emmision, 2.5" HDD: 3.2 B / 18 dB(A) Bystander ; 20 dB(A) Operator position, 3.5" HDD: 3.3 B / 19 dB(A) Bystander ; 22 dB(A) Operator position |
| **Blue angel noise emission according certification** | for max. possible configuration<br>According to ISO 7779:2010, ECMA-74 |
| **Blue angel noise notes / description** | A weighted sound power level Lwad (in B); 1B = 10dB<br>Bystander position |
| **Blue angel noise operation mode: HDD load** | 4.0 B = 40 dB |
| **Blue angel noise operation mode: Idle mode** | 3.8 B = 38 dB |
| **Blue angel noise operation mode: ODD load** | 4.6 B = 46 dB |

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|---|---|
| **Dimensions / Weight / Environmental** | |
| **Dimensions (W x D x H)** | 175 x 419 x 395 mm |
| | 6.89 x 16.5 x 15.56 inch |
| **Operating position** | Vertical |
| **Weight** | 11 kg |
| **Weight (lbs)** | 24.25 lbs |
| **Weight notes** | Actual weight may vary depending on configuration |
| **Operating ambient temperature** | 10 - 35°C (50 - 95°F) |
| **Compliance** | |
| **Product** | ESPRIMO P910 |
| **Model** | MI5W |
| **Germany** | TÜV GS |
| **Europe** | CE<br>Nordic Swan in progress |
| **USA/Canada** | FCC Class B<br>cCSAus |
| **Global** | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>ENERGY STAR® in progress<br>EPEAT® in progress (dedicated regions) |
| **Compliance link** | https://sp.ts.fujitsu.com/sites/certificates/ |
| **Additional Software** | |
| **Additional software (preinstalled)** | Nero Essentials S (burning software)<br>Fujitsu Recovery (Hard Disk Based Recovery)<br>Norton Internet Security (incl. Firewall) 60 days version<br>Don't forget Office. |
| **Additional software (optional)** | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)<br>Nero 10 Essentials XL |
| **Miscellaneous** | |
| | Keyboard on (Special Fujitsu keyboard required)<br>Thermal management<br>Extended lifetime |
| **Compatibility (references)** | |
| | DMI 2.0<br>PC 2001<br>WMI 1.5<br>USB 2.0<br>SMBIOS |
| **Manageability** | |
| **Manageability technology** | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>Intrusion switch (optional)<br>iAMT 8.0 (depending on CPU)<br>WoL (Wake on LAN) |
| **Manageability software** | DeskView Client<br>DeskView Instant BIOS Management<br>DeskView Integration for Symantec Management Platform |

Fujitsu recommends Windows 8 Pro.

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|---|---|
| **Manageability** | |
| **DeskView components** | Inventory Management<br>BIOS Management<br>Driver Management<br>Security Management<br>Alarm Management |
| **Manageability link** | http://www.fujitsu.com/fts/manageability |
| **Security** | |
| **System protection** | Kensington Lock support<br>Eye for padlock<br>Optional: Integrated cabinet lock |
| **Audit proof protection** | EraseDisk (optional)<br>Boot sector virus protection<br>Write protect option for the Flash EPROM<br>Embedded security (TPM 1.2)<br>Control of all USB interfaces<br>External USB ports can be disabled separately<br>Control of external interfaces |
| **Access protection** | User and supervisor BIOS password<br>Hard disk password<br>Optional: Access protection via external SmartCard reader<br>Optional: Access protection via internal SmartCard reader |
| **Serviceability** | |
| | EasyFix<br>EasyChange for HDD<br>EasyChange for optical drives |
| **Packaging information** | |
| **Packaging dimension (mm)** | 516 x 278 x 562 mm |
| **Packaging dimension (inch)** | 20.31 x 10.94 x 22.13 inch |
| **Max. quantity / pallet** | 24 |
| **Material - Weight (g) Carton** | 1405 g |
| **Material - Weight (lbs) Carton** | 3.1 lbs |
| **Material - Weight (g) EPS / PS** | 160 g |
| **Material - Weight (lbs) EPS / PS** | 0.35 lbs |
| **Material - Weight (g) PE** | 60 g |
| **Material - Weight (lbs) PE** | 0.13 lbs |
| **Packaging notes** | printed user documentation is bleached in chlorine free process |
| **Warranty** | |
| **Standard Warranty** | 3 years |
| **Service level** | Bring-In / On-Site Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 2 years material warranty) |
| **Warranty Terms & Conditions** | http://support.ts.fujitsu.com/warranty |
| **Maintenance and Support Services - the perfect extension** | |
| **Recommended Service** | 5x9, Response Time: Next Business Day |
| **Spare Parts availability** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

| | | | |
|---|---|---|---|
| **Wireless Keyboard Set LX900** | | The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security. | S26381-K564-L4** (**: Country specific variation) |
| **SOUNDSYSTEM DS E2000 Air** | | The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting. | Order Code: S26391-F7128-L600 |
| **WebCam 130 HD2** | | With the most advanced HD (High Definition / 720p) recording feature and widescreen video format (16:9 and 16:10), WebCam 130 HD2 can capture up to 30 frame rate per second, close up to HD/720p quality video. Even more: 1-Click-Upload makes the video uploading to YouTube in a snap! With smart clip for notebook & LCD display it is easy to install on any device you want. | Order Code: S26391-F7136-L5 |
| **HS E2000 Communicator Headset** | | The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications. | Order Code: S26391-F7139-L5 |
| **CELVIN® Drive D100** | | The CELVIN® Drive D100 is a highly reliable external storage device with a standard USB-interface for easy Plug & Play use with a notebook or PC. It is also easy to set up additional home network capacity by connecting it with dedicated routers or NAS devices. | Order Code: S26341-F103-L118 |

Fujitsu recommends Windows 8 Pro.

# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO P910 0-Watt, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Fujitsu Portfolio**
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

**Computing Products**
www.fujitsu.com/global/services/computing/

**Software**
www.fujitsu.com/software/

## More information

Learn more about Fujitsu ESPRIMO P910 0-Watt, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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